## MARIJUANA REGULATORY FRAMEWORKS IN FOUR US STATES:

## AN ANALYSIS AGAINST A PUBLIC HEALTH STANDARD

## **Supplemental Table A**

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	le A: State Regulatory Regimes for Retail Marijuana in Four States Compar	Best Practice Standard	CO	WA	OR	AK
	Regulatory Agency			,,,==	9 - 2	
General	"Health agency (i.e., state health department) rather than "good governance	,				
	agency" (i.e. liquor control board) as the lead agency" <sup>1, 2</sup>	<b>√</b>	X	X	X	X
		Category Total :1	0	0	0	0
	Advisory Committees and Regulatory Boards					
	Includes an independent board appointed by Executive or Legislative Branch					
	to advise legislature and state agencies on laws, regulations, marijuana	✓	X	X	✓	X
	prevention and control program, and research program <sup>1-4</sup>					
	Consists of public health officials and academics with experience in marijuana	✓	X	X	✓	v
	prevention and control with strict conflict of interest policy in place <sup>1-4</sup>	•	A	Χ	•	X
	Prohibits decision-making authority for marijuana industry or vested interests <sup>1</sup> -	<b>√</b>	X	X	✓	v
	4	V	Λ	Λ	•	X
		Category Total: 3	0	0	3	0
	Voluntary Agreements					
	Rejects partnerships and non-binding or non-enforceable agreements with the	✓	X	X	X	X
	marijuana industry <sup>1-4</sup>	, ,	Λ	Λ	Λ	Λ
		Category Total: 1	0	0	0	0
	Market Structure and Licensing					
	Requires a state monopoly on production and supply with a clear mandate to					
	protect public health and not generate revenue or to artificially stimulate	✓	X	X	X	X
	demand <sup>1-8</sup>					
	Requires licenses for each part of the supply chain <sup>1-3</sup>	✓	✓	✓	✓	✓
	Limits the size of each stage of production through limits total number of					
	available licenses per stage and restrictions on production, wholesale and retail	✓	X	✓	X	X
ies	sales volume <sup>1, 2, 9</sup>					
olic		Category Total: 3	1	2	1	1
e P	Prevention of Sales to Youth					
Şiq	Restricts furnishing and sales to 21 and older <sup>1-3, 7-15</sup>	✓	✓	✓	✓	✓
Supply-Side Policies	Requires retailer use age verification system through ID scanners at point of	✓	X	X	V	V
	sale <sup>10, 12, 14</sup>	ľ	A	Λ	X	X
	Designates a single state agency to coordinate a statewide plan to enforce the	<b>√</b>	<b>✓</b>	✓	✓	<b>√</b>
	minimum age of legal access to marijuana products <sup>1, 2, 7-11, 13</sup>	ľ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	V	•
	Requires retailers be licensed with fees that cover costs of administration,	✓	<b>✓</b>	<b>√</b>	✓	<b>/</b>
	enforcement inspections, and prosecuting violators <sup>1, 2, 7, 10, 12</sup>	v		•	<b>v</b>	
	Requires retailers and merchants complete effective and mandatory merchant	✓	v	v	V	V
	education programs <sup>8, 10, 12-14</sup>	<b>,</b>	X	X	X	X
	Requires unannounced compliance checks conducted on a routine and frequent	<b>√</b>	X	<b>√</b>	X	X
	basis with dedicated revenue to fund the enforcement program <sup>2, 7, 8, 10-14</sup>	· · · · · · · · · · · · · · · · · · ·	1 X I	v	X	ı X

Mandates administrative sanctions that increase in severity with each subsequent offense leading to permanent license revocation <sup>1-3, 8-14</sup>	✓	✓	✓	✓	✓
Applies penalties for illegal transfer or sale to minors for cultivators, manufacturers, distributors, etc., and not limited to retailers <sup>2, 3</sup>	✓	X	<b>√</b>	<b>√</b>	X
	Category Total: 8	4	6	5	4
Restrictions on Retail Marijuana Stores					
Prohibits marijuana retailers within 1,000 feet from underage-sensitive areas <sup>10</sup>	✓	✓	✓	X	X
Prohibits retail outlets to be concentrated with a given geographic area <sup>1, 2, 6-10, 16</sup>	✓	X	✓	X	X
Restricts the hours and days of trade to minimize harms (i.e., late night sales or Sunday closure) <sup>1, 2, 6-10, 15, 16</sup>	✓	X	X	✓	X
Prohibits POS displays and requires that all products are sold behind the counter <sup>1, 3, 12, 13, 17</sup>	✓	X	X	X	X
Prohibits vending machine sales, self-service displays; only permits vendor assisted sale <sup>2, 3, 12, 13, 17</sup>	✓	X	✓	X	X
Prohibits electronic commerce (i.e. mail order, text messaging, and social media sales) <sup>3, 12, 17</sup>	✓	✓	✓	✓	✓
Prohibits marijuana deliveries <sup>2, 12</sup>	✓	✓	✓	X	✓
	Category Total: 7	3	5	2	2
Dram Shop Liability	<i>5</i> ¥				
Implements dram shop liability laws for individuals to recover damages from					
alcohol retailer who served or sold alcohol to a minor or intoxicated person <sup>1, 2, 7-10, 18, 19</sup>	✓	X	X	X	X
	Category Total: 1	0	0	0	0
Illicit Trade					
Requires an effective track and trace program to monitor distribution system and to diversion to the illicit market <sup>3, 9, 12</sup>	✓	<b>✓</b>	✓	✓	✓
	Category Total: 1	1	1	1	1
Unitary Market					
Does not maintain dual medical and recreational systems subject to different rules <sup>20-24</sup>	✓	X	X	X	X
	Category Total: 1	0	0	0	0
Advertising and Marketing	•				
Prohibits all forms of advertising, promotion, sponsorship <sup>1-3, 6, 8, 12, 13, 15, 17, 25, 26</sup>	✓	X	X	X	X
Prohibits, at a minimum, all forms of advertising, promotion, sponsorship that is false, misleading, or deceptive, or that create erroneous impressions about the product <sup>3, 12, 25</sup>	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>✓</b>
Requires health warning messages on all unbanned forms of advertising, promotion, and sponsorship <sup>2, 3, 10, 12, 25</sup>	✓	X	✓	✓	✓
Prohibits the use of cartoon characters or imagery that may encourage use and	✓	✓	✓	✓	✓

consumption <sup>1-3, 9, 10, 12, 25</sup>					
Prohibits brand stretching and brand sharing <sup>3, 12, 13, 25</sup>	✓	X	X	X	X
Prohibits product placement and payments to promote marijuana in popular media <sup>1-3, 10, 12, 25, 27</sup>	✓	X	X	X	X
	Category Total: 6	2	3	3	3
Price and Tax Measures					
Price and tax policies used to keep prices artificially high to deter consumption <sup>1-3, 7-10, 12, 13, 15, 28-30</sup>	✓	X	X	X	X
Implements system to control for tax evasion and avoidance (i.e., tax stamps and tracking-and-tracing system) <sup>1, 2, 9, 12</sup>	✓	✓	✓	✓	✓
Tax monitored, increased or adjusted on a regular basis, potentially (bi)annually, considering inflation and income growth developments to reduce consumption of marijuana products <sup>1-3, 9, 10, 12, 28, 29</sup>	✓	X	X	X	X
Requires that tax systems are designed in a way that minimizes the incentive for users to shift to cheaper products in the same product category or to cheaper marijuana product categories <sup>1-3</sup> , 9, 12, 28	✓	X	X	X	X
Prohibits price promotions (i.e., giveaways, volume discounts, free samples, and coupons distribution to the public, happy hours) <sup>1, 3, 8-10, 12, 14, 30</sup>	✓	✓	✓	✓	✓
Requires flat rate minimum or mark-up pricing on all wholesale and retail transactions <sup>2, 9, 10</sup>	✓	X	X	X	X
Dedicated revenue to enforcement of laws and regulations, and to marijuana prevention and control and research <sup>1-3, 10, 15, 25, 29</sup>	✓	X	✓	X	X
	Category Total: 7	2	3	2	2
Prevention and Control Programs					
Media campaign					
Media campaign Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup>	✓	X	X	X	X
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup>	✓ ✓	X	X	X	X
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and marijuana industry denormalization <sup>2, 3, 12, 13, 30-32</sup>	·				
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and	✓	<b>✓</b>	✓	✓	✓
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and marijuana industry denormalization <sup>2, 3, 12, 13, 30-32</sup> Messaging on youth access enforcement program, purpose and outcomes <sup>2, 5, 7, 9-</sup>	√ √	✓ X	✓ X	✓ X	✓ X
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and marijuana industry denormalization <sup>2, 3, 12, 13, 30-32</sup> Messaging on youth access enforcement program, purpose and outcomes <sup>2, 5, 7, 9-11, 14</sup> Messaging on marijuana intoxication while driving laws and associated penalties <sup>1, 2, 5, 9, 10, 14</sup> Community-based education	√ ✓	✓ X ✓	✓ X X	✓ X ✓	У Х Х
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and marijuana industry denormalization <sup>2, 3, 12, 13, 30-32</sup> Messaging on youth access enforcement program, purpose and outcomes <sup>2, 5, 7, 9-11, 14</sup> Messaging on marijuana intoxication while driving laws and associated penalties <sup>1, 2, 5, 9, 10, 14</sup> Community-based education  Reflect cultural and ethnic diversity <sup>1-3, 5, 7, 9, 10, 12, 14, 30, 31, 34</sup>	√ ✓	✓ X ✓	✓ X X	✓ X ✓	У Х Х
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and marijuana industry denormalization <sup>2, 3, 12, 13, 30-32</sup> Messaging on youth access enforcement program, purpose and outcomes <sup>2, 5, 7, 9-11, 14</sup> Messaging on marijuana intoxication while driving laws and associated penalties <sup>1, 2, 5, 9, 10, 14</sup> Community-based education  Reflect cultural and ethnic diversity <sup>1-3, 5, 7, 9, 10, 12, 14, 30, 31, 34</sup> Monitoring and Surveillance	✓ ✓ ✓	× X ×	✓ X X X ✓	✓ X ✓ ✓ ✓	✓ X X ✓
Media campaign  Aimed at general population (not just youth) <sup>2, 3, 5, 10, 12-15, 30, 31</sup> Messaging on health risks of consumption and secondhand exposure to marijuana smoke) <sup>2, 3, 9, 12, 30-33</sup> Promotes marijuana free social norm, with messaging on policy change and marijuana industry denormalization <sup>2, 3, 12, 13, 30-32</sup> Messaging on youth access enforcement program, purpose and outcomes <sup>2, 5, 7, 9-11, 14</sup> Messaging on marijuana intoxication while driving laws and associated penalties <sup>1, 2, 5, 9, 10, 14</sup> Community-based education  Reflect cultural and ethnic diversity <sup>1-3, 5, 7, 9, 10, 12, 14, 30, 31, 34</sup>	✓ ✓ ✓	× X ×	✓ X X X ✓	✓ X ✓ ✓ ✓	✓ X X ✓

Collecting data on market research on resulting marijuana industry <sup>3, 9, 12, 30</sup>	✓	X	X	X	X
Ongoing research program to evaluate the effectiveness of prevention and					
control programs <sup>1, 3, 7, 9, 10, 12, 14, 15, 30, 31</sup>	✓	✓	X	✓	X
	Category Total: 10	6	4	7	3
Smokefree Laws					
Prohibit marijuana use wherever tobacco smoking is prohibited <sup>2, 3, 12-15, 30, 32, 35</sup>	✓	X	✓	✓	X
Protect local control over smoking restrictions (i.e., no preemption) <sup>7, 10, 12, 15, 30, 36, 37</sup>	✓	✓	✓	✓	✓
	Category Total: 2	1	2	2	1
Local Control	•				
Allow local option to prohibit marijuana licensees <sup>1, 2, 5, 7, 10, 12, 22, 30</sup>	✓	<b>✓</b>	<b>√</b>	X	<b>√</b>
Protect local control over retail sales environment <sup>1, 2, 5, 7, 10, 12, 22, 30</sup>	✓	<b>√</b>	<b>√</b>	X	<b>√</b>
	Category Total: 2	2	2	0	2
Duadwat Damlatian	Category Total, 2		<u> </u>	U	
Product Regulation  Designates government health department with mandate to develop product					
testing and quality standards <sup>38</sup>	✓	X	X	✓	X
Prohibits products containing additives that are toxic or injurious to health (i.e., nicotine, alcohol, or other chemicals) <sup>3, 12, 39</sup>	✓	✓	X	✓	X
Prohibit products containing residual butane and other solvents, and other					+
chemicals not safe for consumption or inhalation <sup>3, 12, 39</sup>	$\checkmark$	✓	X	$\checkmark$	✓
Prohibits the use of palability enhancers to make products appealing to underage and vulnerable populations (i.e., benzaldehyde, maltol, menthol and vanillin, glucose, molasses, honey and sorbitol, cinnamon, ginger, mint, etc.) <sup>2,</sup> 3, 12, 39	✓	X	X	X	X
Prohibits or restrict ingredients that have coloring properties in marijuana products <sup>2, 3, 39</sup>	✓	✓	✓	✓	✓
Prohibits ingredients in marijuana products that may create the impression that they have a health benefit (i.e., vitamins, amino acids, essential fatty acids) or that are associated with energy and vitality (i.e., caffeine and taurine) <sup>2, 3, 39</sup>	✓	X	X	X	X
Requires laboratories be governmental laboratories or independent laboratories that are not owned or controlled, directly or indirectly, by the marijuana industry <sup>1, 3, 4, 39</sup>	✓	<b>✓</b>	<b>√</b>	✓	<b>✓</b>
·	Category Total: 7	4	2	5	3
Packaging and Labeling Requirements	•				
Requires government health authority approve of product packaging and health warning label <sup>3, 15, 39, 40</sup>	✓	X	X	✓	X
Requires that products are contained in standardized packaging without the use of logos, colors, or brand names <sup>3, 12, 13, 40</sup>	✓	X	X	X	X
Prohibits labeling content that is false, misleading, deceptive, or the use of descriptors to indicate a brand is less harmful or safer than others <sup>3, 12, 39, 40</sup>	✓	✓	<b>√</b>	✓	✓

Requires labels rotate, are large, clear, visible <sup>3, 13, 39-41</sup>	<b>✓</b>	X	X	X	X
Requires that warnings at reading level appropriate for children and low literacy adults <sup>3, 13, 40</sup>	✓	X	X	X	X
Requires that warnings cover 50% or more of the principal display areas <sup>3, 13, 40</sup>	✓	X	X	X	X
Requires that warnings use images in addition to text <sup>3, 13, 30, 40</sup>	✓	X	X	✓	X
	Category Total: 7	1	1	3	1
	Best Practices Total: 67	27	31	34	23
<b>Key</b> : ✓=included; X=not included					

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